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- 1. A lubricant for die lubrication used during compaction pressure of a powder with a die while the lubricant is adhered by electrification to the surface of the die, the lubricant comprising a mixed powder of at least two different lubricants each having a melting point higher than a predetermined temperature of the compaction pressure.
- 2. The lubricant for die lubrication according to claim 1, wherein the at least two different lubricants each having a melting point higher than the predetermined temperature of the compaction pressure are at least two materials selected from the following groups:

group A: metallic soaps;

group B: polyethylenes;

group C: amide-based waxes;

group D: polyamides;

group E: polypropylenes;

group F:/polymers comprised of a prylic acid esters;

group 4: polymers comprised of methacrylic acid esters;

group/H: plastics including fluor/ne; and

group I: lubricants having layered crystal structures.

3. The lubricant for die lubrication according to claim 2, wherein the die is a preheated die.

4. The lubricant for die lubrication according to claim 1, wherein the die is a preheated die.

5. A method of manufacturing a high-density iron-based powder compact, comprising:

placing an iron-based mixed powder into a die; and pressure molding the iron-based mixed powder at a predetermined

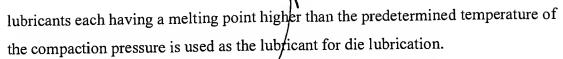
temperature,

wherein the die has the surface on which a lubricant for die lubrication is adhered by electrification, and a mixed powder comprising at least two different

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6. The method of manufacturing a high-density iron-based powder compact according to claim 5, wherein the at least two different lubricants each having a melting point higher than a predetermined temperature of the compaction pressure are at least two materials selected from the following groups:

group A: metallic spaps;

group B: polyethylenes;

group C: amide-based waxes;

group D: polyamides;

group E: polypr/pylenes;

group F: polymers comprised of acrylic acid esters;

group G: polymers comprised of methacrylic acid esters;

group H: plastics including fluorine; and

group I: lubricants having layered crystal structures.

7. The method of manufacturing a high-density iron-based powder compact according to claim 6, comprising preheating the die and the iron-based mixed powder before the iron-based mixed powder is placed in the die.